

CUP STRUCTURE FOR BRAS

FIELD OF THE INVENTION

The present invention relates to a cup structure that includes an air-permeable inter-piece between two cotton layers and a support pad made of soft
5 rubber is connected to a lower portion of the cup.

BACKGROUND OF THE INVENTION

A conventional cup structure of a bra is disclosed in Fig. 5, and generally includes an inside cotton layer 50, an inter piece 51 connected to an outside of the inside cotton layer 50, and a surface cotton layer 500 which is connected to an
10 outside of the inter piece 51. The contour of the cup is maintained by the inter piece 51 which is made of foam and includes a high density which is advantageous to keep the shape of the cup. Nevertheless, the high density of the inter piece 51 makes it hard and stiff which result in uncomfortable wearing to the wearers. The inside and surface cotton layers 50, 500 are woven in one direction so that the two layers 50,
15 500 can only be extended in that direction. Therefore, after a period of use or/and washing, the two layers 50, 500 tend to be deformed permanently and this terminates the term of use of the bra.

The present invention intends to provide a cup structure that is comfortable and includes a support pad made of memory rubber which supports the breasts and is
20 complementary to the contour of the breasts.

SUMMARY OF THE INVENTION

The present invention relates to a cup structure of a bra and the cup comprises a surface layer connected to an outside of an inter piece made of soft

material and being complementary to contour of breasts. An inside layer is connected to an inside of the inter piece. A plurality of holes are defined through the inter piece and a plurality of massaging bosses extend from an inside of the inter piece. A support pad is connected to a lower portion of the inside of the inter piece 5 and softer than the soft material of the inter piece. A support frame is connected to a lower edge of the cup and located beneath the support pad.

The present invention will become more obvious from the following description when taken in connection with the accompanying drawings which show, for purposes of illustration only, a preferred embodiment in accordance with the 10 present invention.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is an exploded view to show the cup of the present invention;
Fig. 2 is a perspective view to show the cup of the present invention;
Fig. 3 shows a bra with two cups of the present invention;
15 Fig. 4 is a side cross sectional view to show a breast covered by the cup of the present invention, and

Fig. 5 shows a structure of a conventional cup of a bra.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring to Figs. 1 to 3, the cup "A" of a bra of the present invention 20 comprises a surface layer 10 which is made of air permeable material such as cotton or lace fabrics. An inter piece 30 made of soft material is made integrally to be a cup-shaped piece and complementary to contour of breasts. A plurality of holes 31 are defined through the inter-piece 30 so as to dispense heat therefrom and a

plurality of massaging bosses 32 extend from an inside of the inter-piece 30. The inter piece 30 is connected to an inside of the surface layer 10. The inter piece 30 is highly flexible and has a feature of memory so as to maintain an initial shape of the cup.

5 An inside layer 20 is made of air permeable material such as cotton and connected to an inside of the inter piece 30. The bosses 32 project from an inside of the inside layer 20.

10 A support pad 40 is connected to a lower portion of the inside of the inter piece 30 and is softer than the soft material of the inter piece 30. A support frame 41 is connected to a lower edge of the cup and located beneath the support pad 40.

15 As shown in Fig. 4, the massaging bosses 32 projecting from the inside layer 20 massage the breast and small gaps are defined between the breast and the inside layer 20 so that heat is not trapped in the cup. The support pad 40 concentrates and support the breast and is so soft that the wearer feel comfortable when wearing the bra.

The support pad 40 and the inter piece 30 can be added with far infra-red material so that when the inter piece 30 and the support pad 40 are warmed by the body temperature, the far infra-red rays accelerate circulation of blood of the wearers. Magnetic powder or magnetic pieces may be installed in the inter piece 30 and the support pad 40 to stimulate the blood circulation of the wearers. Fragrance or vitamin C or/and D are also considered to be added in the inter piece 30 and the support pad 40. If the surface layer 10 is made of lace fabrics, the inter piece 30 and the support pad 40 can be made to have colors which are seen via the lace fabrics.

While we have shown and described the embodiment in accordance with the present invention, it should be clear to those skilled in the art that further embodiments may be made without departing from the scope of the present invention.